QT-CD44

# SHARP SERVICE MANUAL

S6349QTCD44GY

# QT-CD44(GY)

COMPACT disc DIGITAL AUDIO

- In the interests of user-safety the set should be restored to its original condition and only parts identical to those specified be used.

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SHARP ELECTRONICS CORPORATION

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FOR A COMPLETE DESCRIPTION OF THE OPERATION OF THIS UNIT, PLEASE REFER TO THE OPERATION MANUAL.

# IMPORTANT SERVICE NOTES

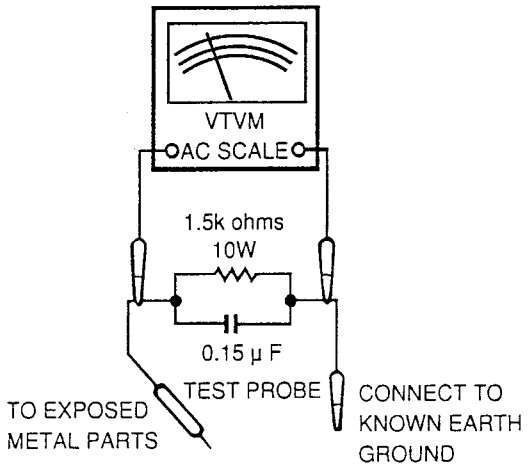
**BEFORE RETURNING THE AUDIO PRODUCT**

(Fire & Shock Hazard)

Before returning the audio product to the user, perform the following safety checks.

1. Inspect all lead dress to make certain that leads are not pinched or that hardware is not lodged between the chassis and other metal parts in the audio product.
2. Inspect all protective devices such as insulating materials, cabinet, terminal board, adjustment and compartment covers or shields, mechanical insulators etc.
3. To be sure that no shock hazard exists, check for leakage current in the following manner.

* Plug the AC line cord directly into a 120 volt AC outlet.
* Using two clip leads, connect a 1.5k ohm, 10 watt resistor paralleled by a 0.15μF capacitor in series with all exposed metal cabinet parts and a known earth ground, such as conduit or electrical ground connected to earth ground.
* Use a VTVM or VOM with 1000 ohm per volt, or higher, sensitivity to measure the AC voltage drop across the resistor (See diagram).
* Connect the resistor connection to all exposed metal parts having a return path to the chassis (antenna, metal cabinet, screw heads, knobs and control shafts, escutcheon, etc.) and measure the AC voltage drop across the resistor.




All check must be repeated with the AC line cord plug connection reversed.

Any reading of 0.3 volt RMS (this corresponds to 0.2 milliamp. AC.) or more is excessive and indicates a potential shock hazard which must be corrected before returning the audio product to the owner.

# SPECIFICATIONS

## ● General

| | |
|---|---|
| **Power source:** | AC 120 V, 60 Hz<br>DC 12 V ["D" size (UM/SUM-1, R20 or HP-2) battery x 8] |
| **Power consumption:** | 24 W |
| **Output power:** | FTC; 2.5 W minimum RMS per channel into 6 ohms from 150 Hz to 20 kHz with no more than 10 % total harmonic distortion.<br>RMS; 3 W RMS per channel at 1 kHz, 10 % total harmonic distortion. |
| **Speakers:** | 4" (10 cm) full renge speaker x 2 |
| **Output terminals:** | Headphones; 16 - 50 ohms (recommended; 32 ohms)<br>1/8" (3.5 mm) jack |
| **Dimensions:** | Width; 17-11/16" (450 mm)<br>Height; 6-5/8" (168 mm)<br>Depth; 8-13/16" (224 mm) |
| **Weight:** | 7.5 lbs. (3.4 kg) without batteries |

## ● Radio

| | |
|---|---|
| **Frequency range:** | FM; 87.6 - 108 MHz<br>AM; 530 - 1,720 kHz |

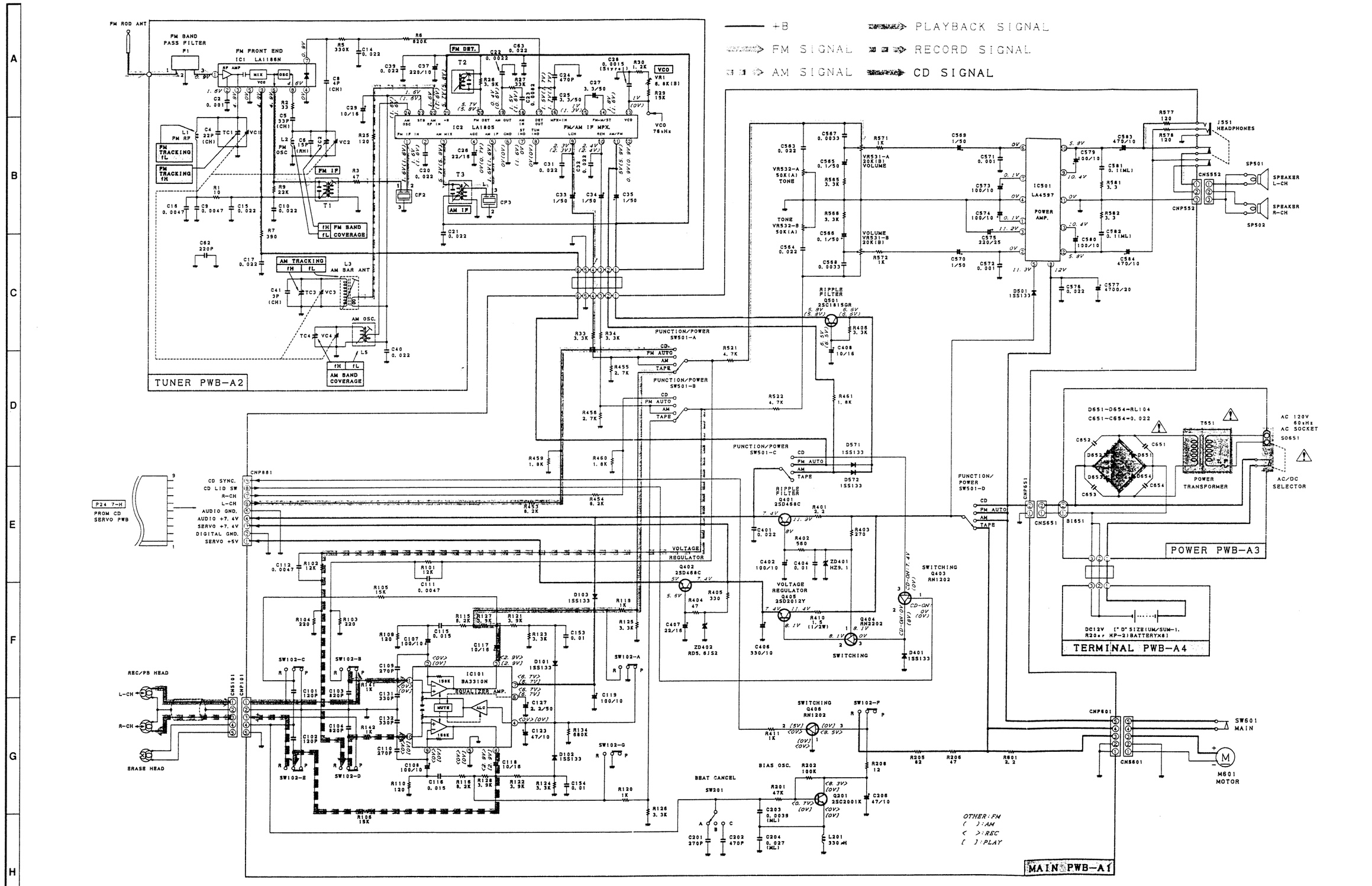
## ● Tape recorder

| | |
|---|---|
| **Frequency response:** | 50 - 14,000 Hz (Normal tape) |
| **Signal/noise ratio:** | 50 dB |
| **Wow and flutter:** | 0.25% (WRMS) |
| **Motor:** | DC 12 V electric governor |
| **Bias system:** | AC bias |
| **Erase system:** | AC erase |

## ● Compact disc player

| | |
|---|---|
| **Disc:** | Compact disc |
| **Signal readout:** | Non-contact, 3-beam semi-conductor laser pickup |
| **Audio channels:** | 2 |
| **Decoder:** | 16-bit linear quantization |
| **Filter:** | 4-times oversampling<br>16-bit digital filter |
| **Wow and flutter:** | Unmeasurable<br>(less than 0.001% W. peak) |

Specifications for this model are subject to change without prior notice.




- NOTES ON SCHEMATIC DIAGRAM can be found on page 26.

Figure 19 SCHEMATIC DIAGRAM (1/2)

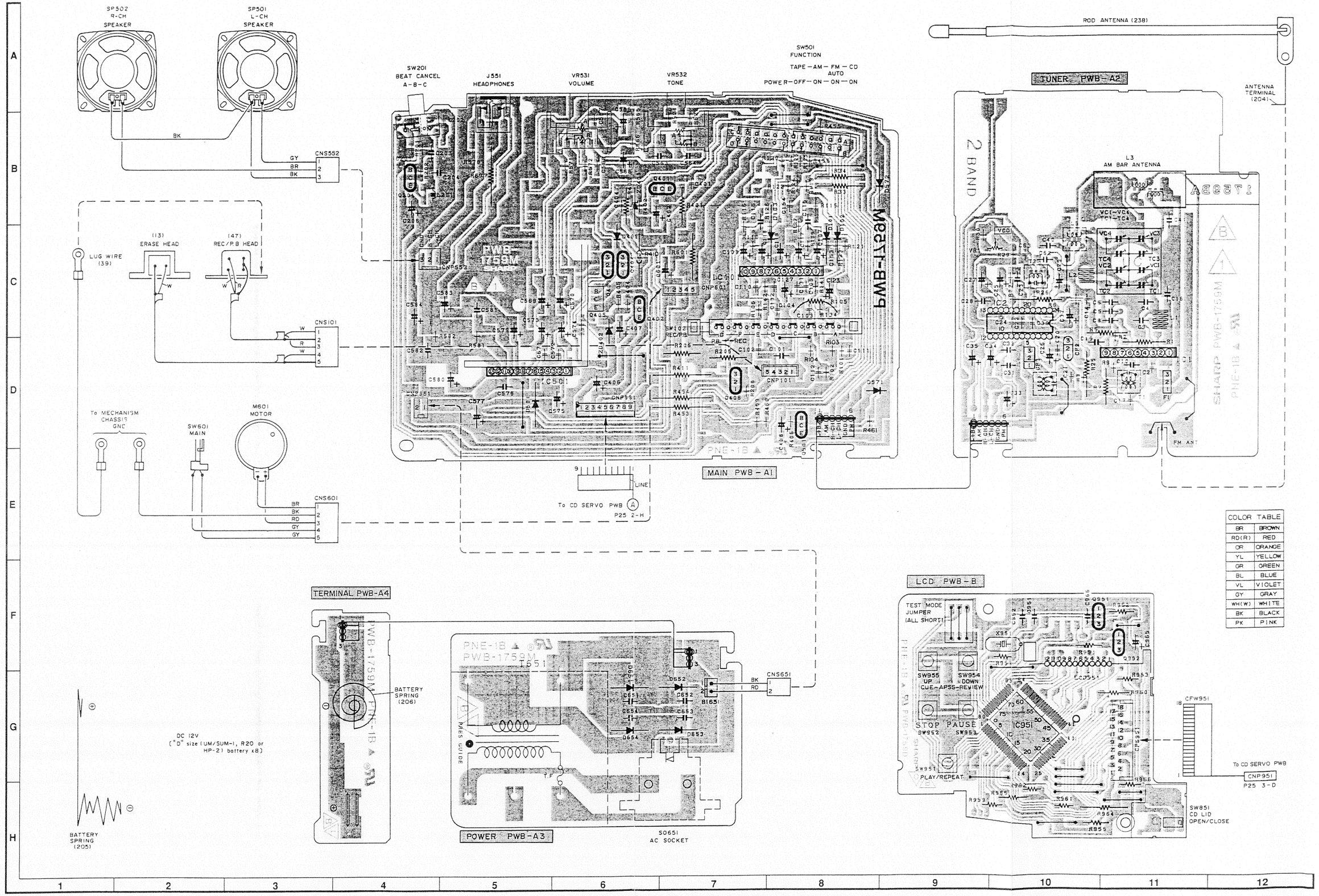
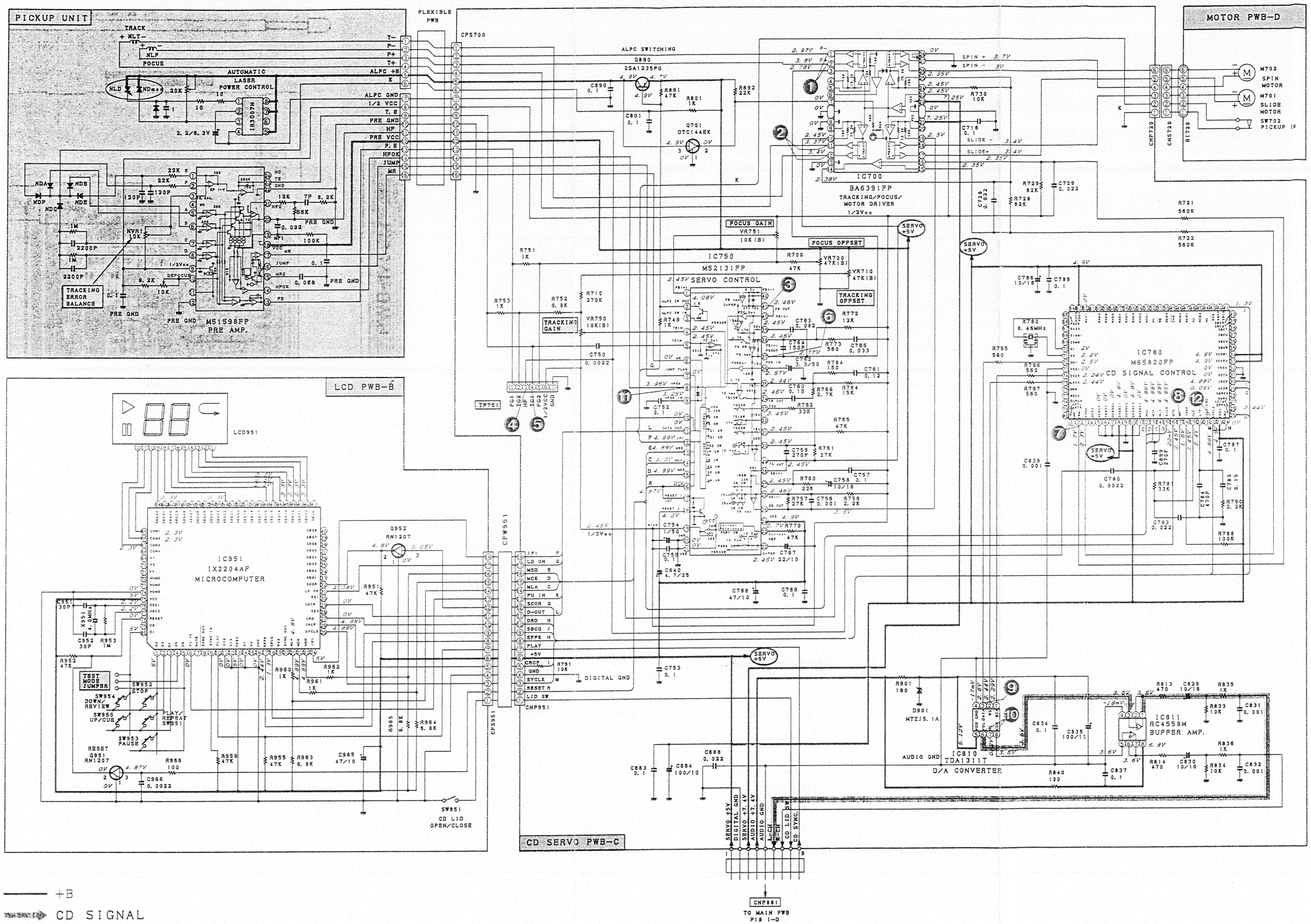


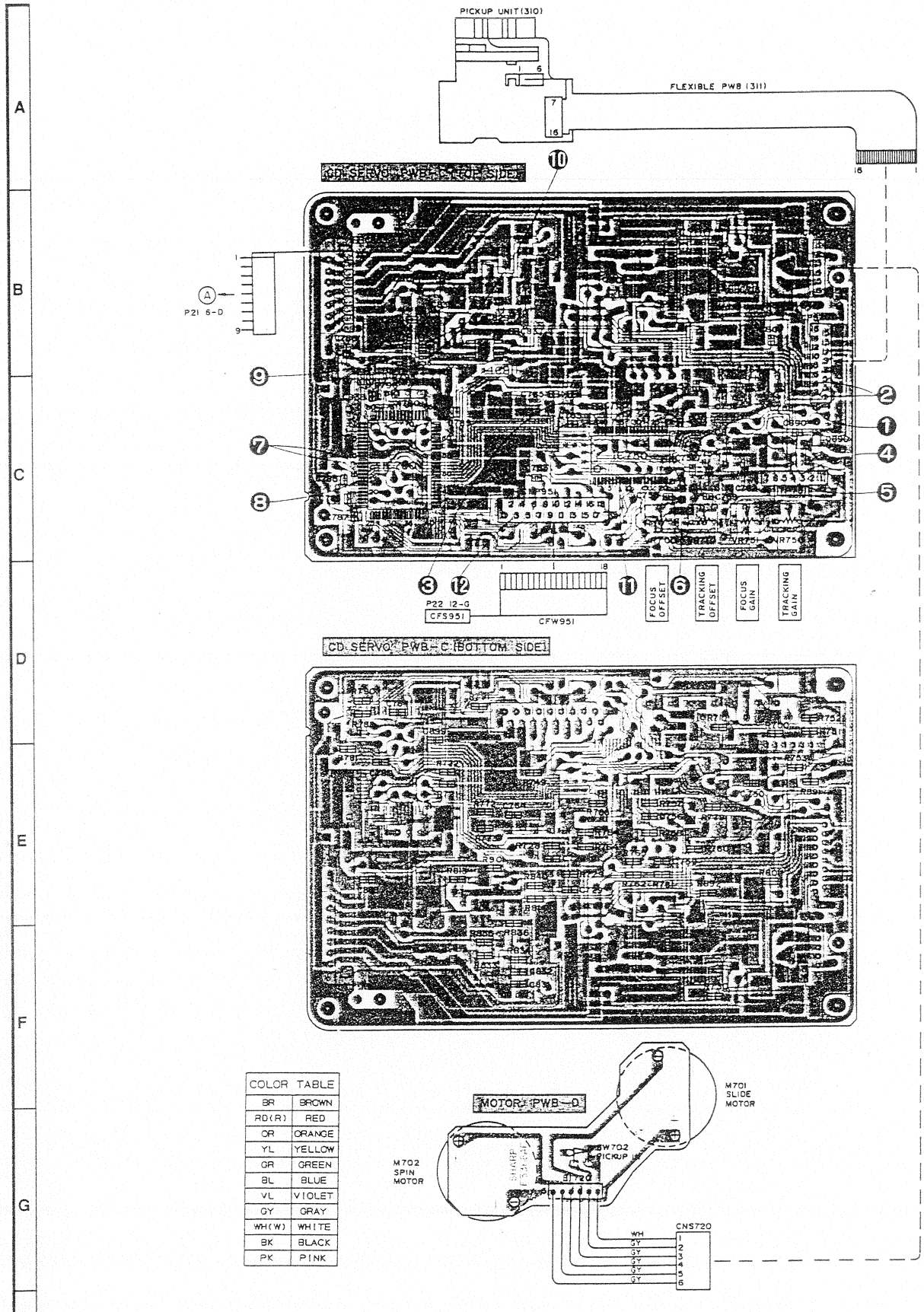

Figure 21 WIRING SIDE OF P.W.BOARD (1/2)




• NOTES ON SCHEMATIC DIAGRAM can be found on page 26.

• The numbers ❶ to ⓬ are waveform numbers shown in page 25.

Figure 23 SCHEMATIC DIAGRAM (2/2)




: Top side of PWB. : Bottom side of PWB.

● : Through-hole (where front and back patterns are connected)

• The numbers ❶ to ⓬ are waveform numbers shown in page 18.

Figure 25 WIRING SIDE OF P.W.BOARD (2/2)

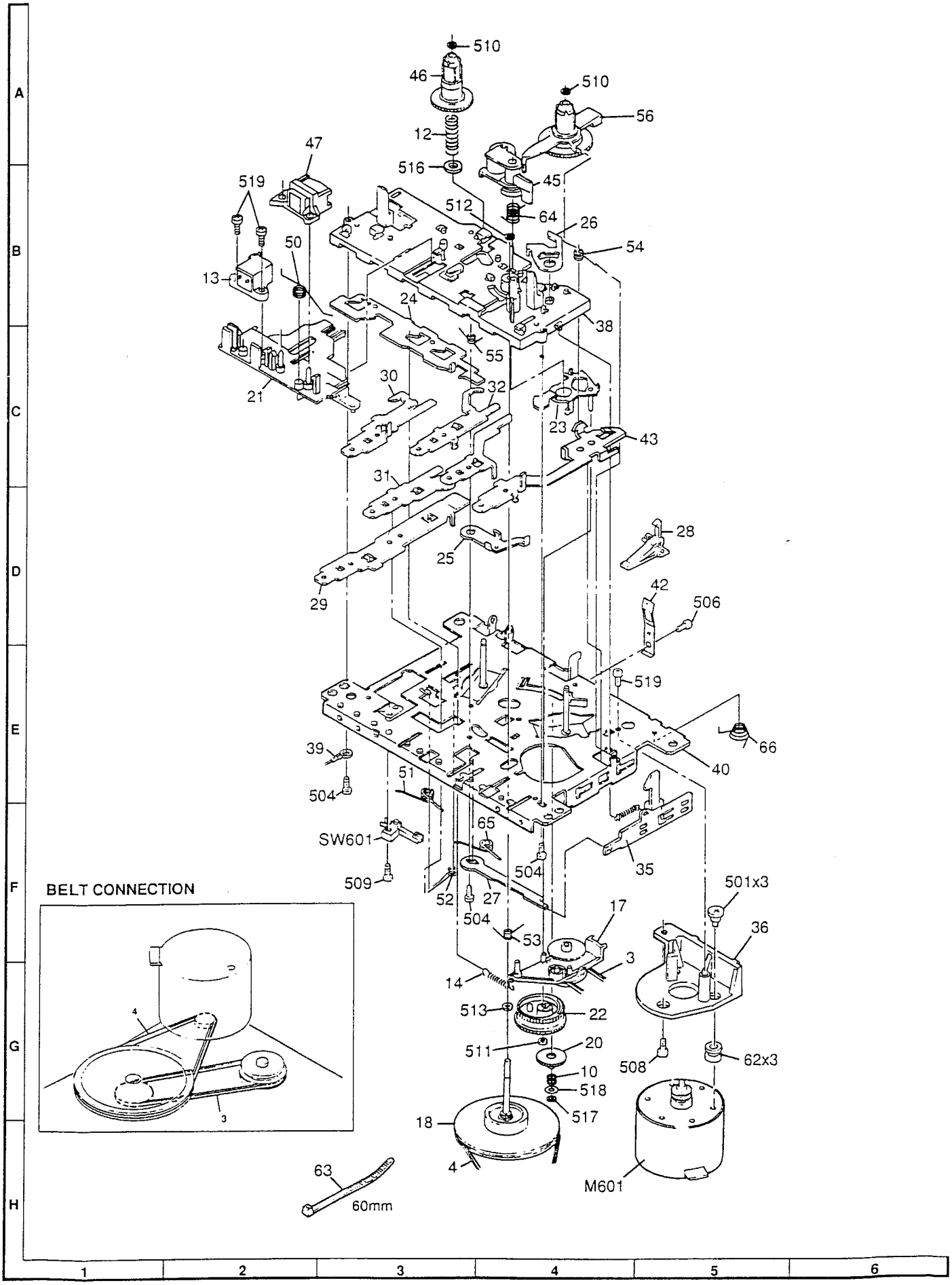



Figure 33 TAPE MECHANISM EXPLODED VIEW

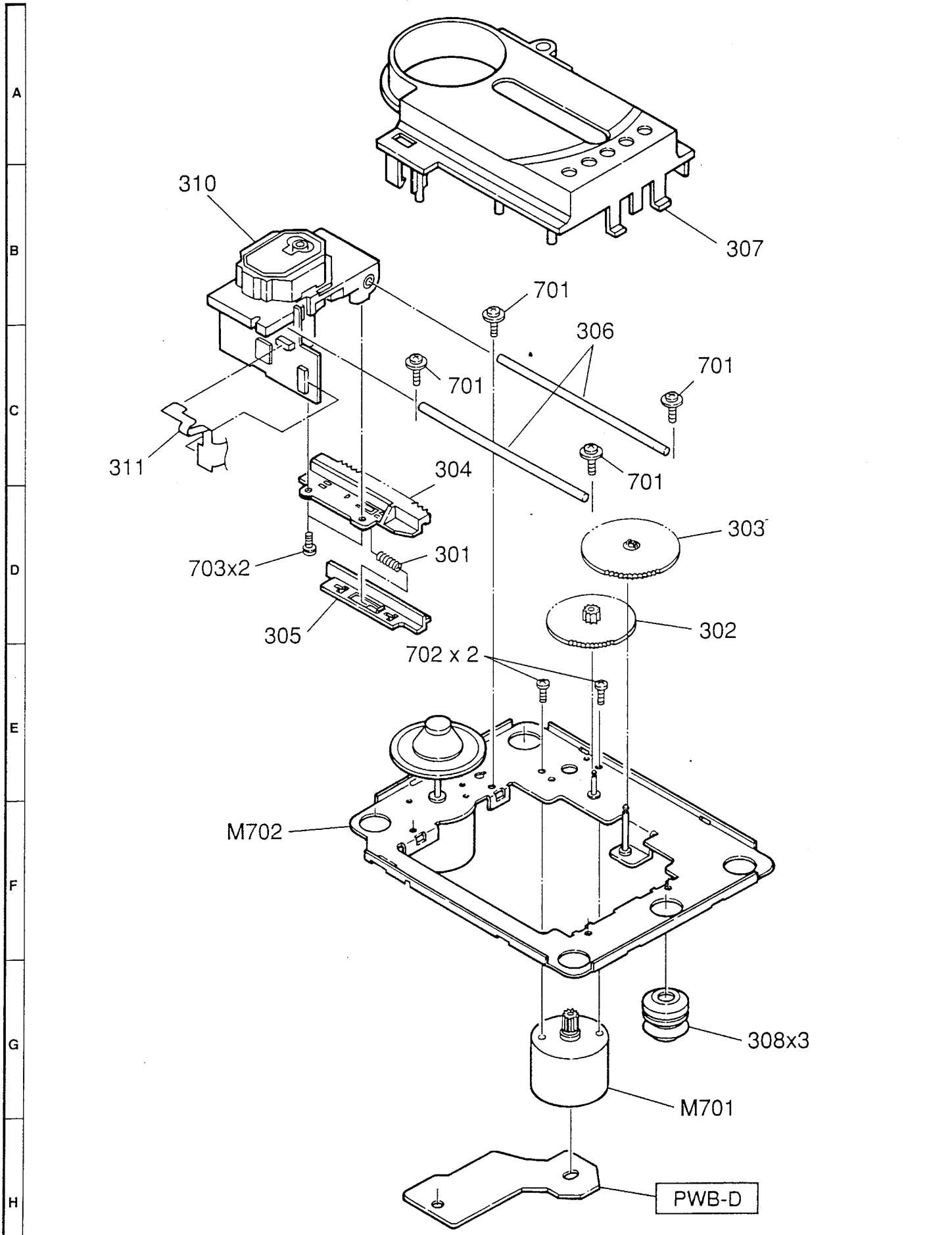



Figure 34 CD MECHANISM EXPLODED VIEW

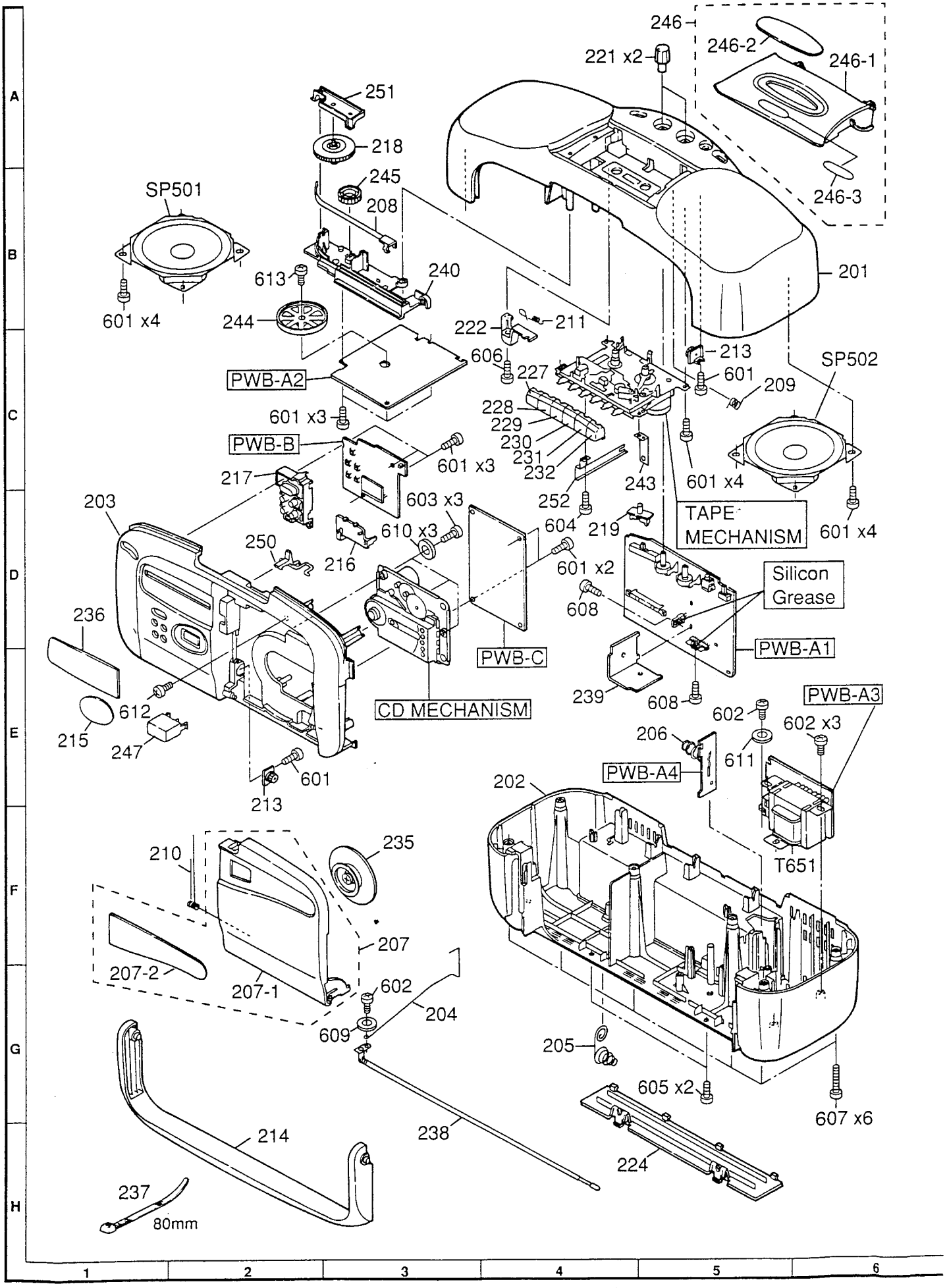



Figure 35 CABINET EXPLODED VIEW

# REPLACEMENT PARTS LIST

## "HOW TO ORDER REPLACEMENT PARTS"

To have your order filled promptly and correctly, please furnish the following information.
1. MODEL NUMBER 2. REF.NO.
3. PART NO. 4. DESCRIPTION

★MARK: SPARE PARTS-DELIVERY SECTION

Contact your nearest SHARP Parts Distributor to order,

For location of SHARP Parts Distributor.
Please call Toll-Free;
800-447-4700
(In Hawaii and Alaska, please contact local SHARP dealer.)

**NOTE:**
Parts marked with "⚠" are important for maintaining the safety of the set. Be sure to replace these parts with specified ones for maintaining the safety and performance of the set.

| REF.NO. | PART NO. | ★ | DESCRIPTION | CODE |
|---|---|---|---|---|
| **INTEGRATED CIRCUITS** | | | | |
| IC1 | VHiLA1186N/-1 | J | FM Front End,LA1186N | A E |
| IC2 | 92LiC-LA1805 | J | FM/AM IF MPX.,LA1805 | A M |
| IC101 | VHiBA3310N/-1 | J | Equalizer Amp.,BA3310N | A F |
| IC501 | 92LiC-LA4597 | J | Power Amp.,LA4597 | A L |
| IC700 | VHiBA6391FP-1 | J | Tracking/Focus/Motor Driver,BA6391FP | A U |
| IC750 | VHiM52131FP-1 | J | Servo Control,M52131FP | A N |
| IC780 | VHiM65820FP-1 | J | CD Signal Control,M65820 FP | A X |
| IC810 | VHiTDA1311T-T | J | D/A Converter,TDA1311T | A P |
| IC811 | VHiRC4558M/-1 | J | Buffer Amp.,RC4558M | A C |
| IC951 | 92LiCiX2204 | J | Microcomputer,IX2204AF | A Y |
| **TRANSISTORS** | | | | |
| Q201 | VS2SC2001-K-1 | J | Silicon,NPN,2SC2001 K | A D |
| Q401,402 | VS2SD468-C/-1 | J | Silicon,NPN,2SD468 C | A D |
| Q403 | VSRN1202///-1 | J | Digital,RN1202 | A B |
| Q404 | 92LRN2202T | J | Digital,RN2202 | A B |
| Q405 | 92L2SD2012Y | J | Silicon,NPN,2SD2012 Y | A E |
| Q406 | VSRN1202///-1 | J | Digital,RN1202 | A B |
| Q501 | VS2SC1815GR-1 | J | Silicon,NPN,2SC1815 GR | A B |
| Q701 | VSDTC144EK/-1 | J | Digital,NPN,DTC144 EK | A B |
| Q890 | VS2SA1235FG-1 | J | Silicon,PNP,2SA1235 FG | A B |
| Q951,952 | 92LRN-1207T | J | Digital,NPN,RN1207 | A B |
| **DIODES** | | | | |
| D101~103 | VHD1SS133//-1 | J | Silicon,1SS133 | A A |
| D401 | VHD1SS133//-1 | J | Silicon,1SS133 | A A |
| D501 | VHD1SS133//-1 | J | Silicon,1SS133 | A A |
| D571,572 | VHD1SS133//-1 | J | Silicon,1SS133 | A A |
| ⚠D651~654 | 92LRL104AT | J | Silicon,RL104T | A B |
| D901 | 92LMTZJ5R1AVT | J | Zener,5.1V,MTZJ5.1A | A B |
| ZD401 | 92LHZ9A1T | J | Zener,9.1V,HZ9.1 | A B |
| ZD402 | VHERD5R6JS2-1 | J | Zener,5.6V,RD5.6JS2 | A B |
| **FILTERS** | | | | |
| CF2 | 92LFiLT-F1342A | J | FM IF,10.7 MHz | A D |
| CF3 | 92LFiLT-523A | J | AM IF,455 kHz | A D |
| F1 | 92LFiLTF1759AT | J | FM Band Pass Filter | A D |
| **TRANSFORMERS** | | | | |
| T1 | 92LiFTF1651A | J | FM IF | A D |
| T2 | 92LiFT-197A | J | FM Detector | A C |
| T3 | 92LiFTA1651A | J | AM IF | A D |
| ⚠T651 | 92LPT1651A | J | Power | A X |
| **COILS** | | | | |
| L1 | 92LCōiLR-197A | J | FM RF | A A |
| L2 | 92LCōiLō1651FA | J | FM Oscillation | A A |
| L3 | 92LCōiLA1759BA | J | AM Bar Antenna | A G |
| L5 | 92LCōiLō1651MA | J | AM Oscillation | A D |
| L201 | VP-MK331K0000 | J | 330 μH,Choke | A B |
| **VARIABLE RESISTORS** | | | | |
| VR1 | 92LVRS682NBUT | J | 6.8 kohms (B),Semi-VR [VCO] | A C |
| VR531 | 92LVR-524A | J | 20 kohms (B)× 2 [Volume] | A H |
| VR532 | 92LVR-524B | J | 50 kohms (A)×2 [Tone] | A G |
| VR700 | RVR-M0590AFZZ | J | 47 kohms (B),Semi-VR [Focus Offset] | A B |
| VR710 | RVR-M0590AFZZ | J | 47 kohms (B),Semi-VR [Tracking Offset] | A B |
| VR750 | RVR-M0586AFZZ | J | 10 kohm (B),Semi-VR [Tracking Gain] | A B |
| VR751 | RVR-M0586AFZZ | J | 10 kohm (B),Semi-VR [Focus Gain] | A B |
| **VARIABLE CAPACITOR** | | | | |
| VC1~4 | 92LVC-1455A | J | Variable Capacitance with Trimmer (T1~T4) | A N |
| **VIBRATORS** | | | | |
| X780 | RCRM-0109AFZZ | J | Ceramic,8.46 MHz | A D |
| X951 | RCRM-0018AFZZ | J | Crystal,4.0 MHz | A D |

**CAPACITORS**

There are two types of capacitors available and they can be identified from each other by reading their Part Numbers.
- Ceramic type capacitor;
  A symbol "C" or "K" is given at the 3rd digit of its Part Number like "VCC (or K)·····J."
- Semiconductor type capacitor:
  A symbol "T" is given at the 3rd digit of its Part Number like "VCT·····J."

The capacitance error of each capacitor is indicated by the symbol given at the 13th digit of the Part Number as follows:"J" (±5%), "K" (±10%), "M" (±20%), "N" (±30%), "C" (±0.25 pF), "D" (±0.5 pF), "Z" (+80−20%).
(Tubular type ceramic capacitor is identified by the symbol TV(TQ/CY) of the part NO. VC00TV(TQ/CY)0000000; this TV(TQ/CY) does not mean the lead wire.)
(Tubular type ceramic capacitor is identified by the symbol MF(MN) of the part NO. VC00MF(MN)0000000; this MF(MN) does not mean the lead wire.)
Unless otherwise specified, electrolytic capacitors are ±20% type.

| | | | | |
|---|---|---|---|---|
| C2 | VCKYMN1HB102K | J | 0.001 μF,50V | A A |
| C4 | VCCCPA1HH220J | J | 22 pF (CH),50V | A A |

| REF.NO. | PART NO. | ★ | DESCRIPTION | CODE |
|---|---|---|---|---|
| C5 | VCCCPA1HH330J | J | 33 pF (CH),50V | A A |
| C6 | VCCRPA1HH150J | J | 15 pF (RH),50V | A A |
| C8 | VCCCPA1HH4R0C | J | 4 pF (CH),50V | A A |
| C9 | VCTYPA1EX472M | J | 0.0047 μF,25V | A A |
| C10 | VCTYPA1EX223M | J | 0.022 μF,25V | A A |
| C14 | VCTYMN1EF223Z | J | 0.022 μF,25V | A A |
| C15 | VCTYPA1EX223M | J | 0.022 μF,25V | A A |
| C16 | VCTYPA1EX472M | J | 0.0047 μF,25V | A A |
| C17 | VCTYMN1EF223Z | J | 0.022 μF,25V | A A |
| C20,21 | VCTYMN1EF223Z | J | 0.022 μF,25V | A A |
| C22 | VCTYMN1CX222K | J | 0.0022 μF,16V | A A |
| C23 | VCTYPA1EX822K | J | 0.0082 μF,25V | A A |
| C24 | VCTYMN1HB471K | J | 470 pF,50V | A A |
| C25 | RC-GZA335AF1H | J | 3.3 μF,50V,Electrolytic | A B |
| C26 | RC-GZA226AF1C | J | 22 μF,16V,Electrolytic | A B |
| C27 | RC-GZA335AF1H | J | 3.3 μF,50V,Electrolytic | A B |
| C28 | VCQSMV1HS152J | J | 0.0015 μF,50V,Styrol | A B |
| C29 | RC-GZA106AF1C | J | 10 μF,16V,Electrolytic | A B |
| C31,32 | VCTYPA1EX223K | J | 0.022 μF,25V | A A |
| C33~35 | RC-GZA105AF1H | J | 1 μF,50V,Electrolytic | A B |
| C37 | RC-GZA227AF1A | J | 220 μF,10V,Electrolytic | A B |
| C39 | VCTYMN1EF223Z | J | 0.022 μF,25V | A A |
| C40 | VCTYPA1EX223M | J | 0.022 μF,25V | A A |
| C41 | VCCCPA1HH3R0C | J | 3 pF (CH),50V | A A |
| C62 | VCKYPA1HB221K | J | 220 pF,50V | A A |
| C63 | VCTYMN1EF223Z | J | 0.022 μF,25V | A A |
| C101 | VCKYPA1HB121K | J | 120 pF,50V | A A |
| C102 | VCKYMN1HB121K | J | 120 pF,50V | A A |
| C103,104 | VCKYMN1HB821K | J | 820 pF,50V | A A |
| C107,108 | RC-GZA107AF1A | J | 100 μF,10V,Electrolytic | A B |
| C109,110 | VCKYMN1HB271K | J | 270 pF,50V | A A |
| C111,112 | VCTYMN1HB472K | J | 0.0047 μF,50V | A A |
| C115,116 | VCTYPA1EX153K | J | 0.015 μF,25V | A A |
| C117,118 | RC-GZA106AF1C | J | 10 μF,16V,Electrolytic | A B |
| C119 | RC-GZA107AF1A | J | 100 μF,10V,Electrolytic | A B |
| C123 | RC-GZA476AF1A | J | 47 μF,10V,Electrolytic | A B |
| C127 | RC-GZA225AF1H | J | 2.2 μF,50V,Electrolytic | A B |
| C131,132 | VCKYMN1HB331K | J | 330 pF,50V | A A |
| C153,154 | VCTYMN1CY103K | J | 0.01 μF,16V | A A |
| C201 | VCKYMN1HB271K | J | 270 pF,50V | A A |
| C202 | VCKYMN1HB471K | J | 470 pF,50V | A A |
| C203 | RC-QZA392AFYJ | J | 0.0039 μF,50V,Mylar | A B |
| C204 | RC-QZA273AFYJ | J | 0.027 μF,50V,Mylar | A B |
| C206 | RC-GZA476AF1A | J | 47 μF,10V,Electrolytic | A B |
| C401 | VCTYMN1EF223Z | J | 0.022 μF,25V | A A |
| C402 | RC-GZA107AF1A | J | 100 μF,10V,Electrolytic | A B |
| C404 | VCTYMN1CY103N | J | 0.01 μF,16V | A A |
| C406 | RC-GZA337AF1A | J | 330 μF,10V,Electrolytic | A B |
| C407 | RC-GZA226AF1C | J | 22 μF,16V,Electrolytic | A B |
| C408 | RC-GZA106AF1C | J | 10 μF,16V,Electrolytic | A B |
| C563,564 | VCTYPA1EX223K | J | 0.022 μF,25V | A A |
| C565,566 | RC-GZA104AF1H | J | 0.1 μF,50V,Electrolytic | A B |
| C567,568 | VCTYMN1CX332K | J | 0.0033 μF,16V | A A |
| C569,570 | RC-GZA105AF1H | J | 1 μF,50V,Electrolytic | A B |
| C571,572 | VCKYMN1HB102K | J | 0.001 μF,50V | A A |
| C573,574 | RC-GZA107AF1A | J | 100 μF,10V,Electrolytic | A B |
| C575 | RC-GZA227AF1E | J | 220 μF,25V,Electrolytic | A B |
| C576 | VCKZPA1HF223Z | J | 0.022 μF,50V | A A |
| C577 | RC-GZ0051AFZZ | J | 4700 μF,20V,Electrolytic | A H |
| C579,580 | RC-GZA107AF1A | J | 100 μF,10V,Electrolytic | A B |
| C581,582 | RC-QZA104AFYK | J | 0.1 μF,50V,Mylar | A B |
| C583,584 | RC-GZA477AF1A | J | 470 μF,10V,Electrolytic | A C |
| C651~654 | VCKZPA1HF223Z | J | 0.022 μF,50V | A A |
| C716 | VCKYTV1EF104Z | J | 0.1 μF,25V | A A |
| C728,729 | VCTYMN0JY223N | J | 0.022 μF,6.3V | A A |
| C750 | VCTYMN1CX222K | J | 0.0022 μF,16V | A A |
| C752 | VCKRTV1CR104K | J | 0.1 μF,16V | A A |
| C753 | VCKYTV1EF104Z | J | 0.1 μF,25V | A A |
| C754 | RC-GZA105AF1H | J | 1 μF,50V,Electrolytic | A B |
| C755 | VCKYTV1EF104Z | J | 0.1 μF,25V | A A |
| C756 | VCKYMN1HB102K | J | 0.001 μF,50V | A A |
| C757 | VCKYTV1EF104Z | J | 0.1 μF,25V | A A |
| C758 | RC-GZA106AF1C | J | 10 μF,16V,Electrolytic | A B |
| C759 | VCKYMN1HB271K | J | 270 pF,50V | A A |
| C760 | VCKRTV1CR154K | J | 0.15 μF,16V | A B |
| C761 | VCKRTV1CR124K | J | 0.12 μF,16V | A B |
| C762 | RC-GZA335AF1H | J | 3.3 μF,50V,Electrolytic | A B |
| C763 | VCKYTV1CB823K | J | 0.082 μF,16V | A B |
| C764 | VCKYMN1HB151K | J | 150 pF,50V | A A |
| C765 | VCKYTV1EB333K | J | 0.033 μF,25V | A B |
| C767 | RC-GZA226AF1A | J | 22 μF,10V,Electrolytic | A B |
| C768 | RC-GZA476AF1A | J | 47 μF,10V,Electrolytic | A B |
| C769 | VCKYTV1EF104Z | J | 0.1 μF,25V | A A |
| C780 | VCTYMN1CX222K | J | 0.0022 μF,16V | A A |
| C783 | VCKYTV1EB223K | J | 0.022 μF,25V | A B |
| C784 | VCKYMN1HB471K | J | 470 pF,50V | A A |
| C785 | VCKRTV1CR154K | J | 0.15 μF,16V | A B |
| C786 | RC-GZA106AF1C | J | 10 μF,16V,Electrolytic | A B |
| C787 | VCKYTV1EF104Z | J | 0.1 μF,25V | A A |
| C789 | VCKYTV1EF104Z | J | 0.1 μF,25V | A A |
| C801 | VCKYTV1EF104Z | J | 0.1 μF,25V | A A |
| C829,830 | RC-GZA106AF1C | J | 10 μF,16V,Electrolytic | A B |
| C831,832 | VCKYMN1HB102K | J | 0.001 μF,50V | A A |
| C834 | VCKYTV1EF104Z | J | 0.1 μF,25V | A A |
| C835 | RC-GZA107AF1A | J | 100 μF,10V,Electrolytic | A B |
| C837 | VCKYTV1EF104Z | J | 0.1 μF,25V | A A |
| C838 | VCKYTV1HB102K | J | 0.001 μF,50V | A A |
| C840 | RC-GZA475AF1E | J | 4.7 μF,25V,Electrolytic | A B |
| C883 | VCKYTV1EF104Z | J | 0.1 μF,25V | A A |
| C884 | RC-GZA107AF1A | J | 100 μF,10V,Electrolytic | A B |
| C888 | VCTYMN1EF223Z | J | 0.022 μF,25V | A A |
| C890 | VCKYTV1EF104Z | J | 0.1 μF,25V | A A |
| C899 | VCKYMN1HB271K | J | 270 pF,50V | A A |
| C951,952 | VCCSPA1HL300J | J | 30 pF,50V | A A |
| C965 | RC-GZA476AF1A | J | 47 μF,10V,Electrolytic | A B |
| C966 | VCKZPA1HB222K | J | 0.0022 μF,50V | A A |

## RESISTORS

(Unless otherwise specified, resistors are ±5%,carbon type.) (Tubular type carbon film resistor ±5% is identified the symbol TV(TQ/CY) of the part NO. VRS−TV(TQ/CY)0000000; this TV(TQ/CY) does not mean lead wire.)
(Tubular type carbon film resistor ±5% is identified the symbol MF(MN) of the part NO. VRD−MF(MN)0000000; this MF(MN) does not mean lead wire.)

| | | | | |
|---|---|---|---|---|
| | VRD-MN2BD000C | J | 0 ohm,Jumper,φ1.4×3.5mm, Ivory | A A |
| R1 | VRD-ST2EE100J | J | 10 ohm,1/4W | A A |
| R2 | VRD-MN2BD330J | J | 33 ohms,1/8W | A A |
| R3 | VRD-MN2BD470J | J | 47 ohms,1/8W | A A |
| R5 | VRD-ST2EE334J | J | 330 kohms,1/4W | A A |
| R6 | VRD-ST2EE824J | J | 820 kohms,1/4W | A A |
| R7 | VRD-ST2EE391J | J | 390 ohms,1/4W | A A |
| R9 | VRD-MN2BD223J | J | 22 kohms,1/8W | A A |
| R25 | VRD-ST2EE121J | J | 120 ohms,1/4W | A A |
| R26 | VRD-MN2BD392J | J | 3.9 kohms,1/8W | A A |
| R27 | VRD-MN2BD333J | J | 33 kohms,1/8W | A A |
| R29 | VRD-MN2BD153J | J | 15 kohms,1/8W | A A |
| R30 | VRD-MN2BD122J | J | 1.2 kohms,1/8W | A A |
| R33,34 | VRD-ST2EE332J | J | 3.3 kohms,1/4W | A A |
| R101,102 | VRD-MN2BD123J | J | 12 kohms,1/8W | A A |
| R103,104 | VRD-MN2BD221J | J | 220 ohms,1/8W | A A |
| R105 | VRD-ST2EE153J | J | 15 kohms,1/4W | A A |
| R106 | VRD-MN2BD153J | J | 15 kohms,1/8W | A A |
| R109,110 | VRD-MN2BD121J | J | 120 ohms,1/8W | A A |
| R115,116 | VRD-MN2BD822J | J | 8.2 kohms,1/8W | A A |
| R119,120 | VRD-MN2BD102J | J | 1 kohm,1/8W | A A |
| R121,122 | VRD-MN2BD392J | J | 3.9 kohms,1/8W | A A |
| R123~126 | VRD-MN2BD332J | J | 3.3 kohms,1/8W | A A |
| R127,128 | VRD-MN2BD392J | J | 3.9 kohms,1/8W | A A |

| E | REF.NO. | PART NO. | ★ | DESCRIPTION | CODE |
|---|---|---|---|---|---|
| | R134 | VRD-MN2BD684J | J | 680 kohms,1/8W | A A |
| | R141,142 | VRD-MN2BD102J | J | 1 kohm,1/8W | A A |
| | R201 | VRD-MN2BD473J | J | 47 kohms,1/8W | A A |
| | R202 | VRD-MN2BD104J | J | 100 kohm,1/8W | A A |
| | R205 | VRD-ST2EE820J | J | 82 ohms,1/4W | A A |
| | R206 | VRD-ST2EE470J | J | 47 ohms,1/4W | A A |
| | R208 | VRD-MN2BD120J | J | 12 ohms,1/8W | A A |
| | R401 | VRD-ST2EE2R2J | J | 2.2 ohms,1/4W | A A |
| | R402 | VRD-MN2BD561J | J | 560 ohms,1/8W | A A |
| | R403 | VRD-ST2EE271J | J | 270 ohms,1/4W | A A |
| | R404 | VRD-MN2BD470J | J | 47 ohms,1/8W | A A |
| | R405 | VRD-MN2BD331J | J | 330 ohms,1/8W | A A |
| | R406 | VRD-MN2BD332J | J | 3.3 kohms,1/8W | A A |
| | R410 | VRD-RT2HD1R5J | J | 1.5 ohms,1/2W | A B |
| | R411 | VRD-ST2EE102J | J | 1 kohm,1/4W | A A |
| | R453,454 | VRD-ST2EE822J | J | 8.2 kohms,1/4W | A A |
| | R455,456 | VRD-MN2BD272J | J | 2.7 kohms,1/8W | A A |
| | R459,460 | VRD-MN2BD182J | J | 1.8 kohms,1/8W | A A |
| | R461 | VRD-MN2BD182J | J | 1.8 kohms,1/8W | A A |
| | R521,522 | VRD-MN2BD472J | J | 4.7 kohms,1/8W | A A |
| | R565,566 | VRD-MN2BD332J | J | 3.3 kohms,1/8W | A A |
| | R571,572 | VRD-MN2BD102J | J | 1 kohm,1/8W | A A |
| | R577 | VRD-ST2EE121J | J | 120 ohms,1/4W | A A |
| | R578 | VRD-MN2BD121J | J | 120 ohms,1/8W | A A |
| | R581,582 | VRD-MN2BD3R3J | J | 3.3 ohms,1/8W | A A |
| | R601 | VRD-ST2EE2R2J | J | 2.2 ohms,1/4W | A A |
| | R700 | VRD-MN2BD473J | J | 47 kohms,1/8W | A A |
| | R710 | VRD-MN2BD274J | J | 270 kohms,1/8W | A A |
| | R721,722 | VRD-MN2BD564J | J | 560 kohms,1/8W | A A |
| | R728,729 | VRD-MN2BD823J | J | 82 kohms,1/8W | A A |
| | R730 | VRD-MN2BD103J | J | 10 kohm,1/8W | A A |
| | R749 | VRD-MN2BD102J | J | 1 kohm,1/8W | A A |
| | R751 | VRD-MN2BD102J | J | 1 kohm,1/8W | A A |
| | R752 | VRD-MN2BD682J | J | 6.8 kohms,1/8W | A A |
| | R753 | VRD-MN2BD102J | J | 1 kohm,1/8W | A A |
| | R757 | VRD-MN2BD273J | J | 27 kohms,1/8W | A A |
| | R758 | VRD-MN2BD222J | J | 2.2 kohms,1/8W | A A |
| | R760 | VRD-MN2BD223J | J | 22 kohms,1/8W | A A |
| | R761 | VRD-MN2BD273J | J | 27 kohms,1/8W | A A |
| e | R762 | VRD-MN2BD333J | J | 33 kohms,1/8W | A A |
| ). | R764 | VRD-MN2BD153J | J | 15 kohms,1/8W | A A |
| | R765 | VRD-MN2BD473J | J | 47 kohms,1/8W | A A |
| e | R766 | VRD-MN2BD272J | J | 2.7 kohms,1/8W | A A |
| | R772 | VRD-MN2BD123J | J | 12 kohms,1/8W | A A |
| | R773 | VRD-MN2BD561J | J | 560 ohms,1/8W | A A |
| | R779 | VRD-MN2BD473J | J | 47 kohms,1/8W | A A |
| | R781 | VRD-MN2BD333J | J | 33 kohms,1/8W | A A |
| | R784 | VRD-MN2BD151J | J | 150 ohms,1/8W | A A |
| | R788 | VRD-MN2BD104J | J | 100 kohm,1/8W | A A |
| | R790 | VRD-MN2BD222J | J | 2.2 kohms,1/8W | A A |
| | R791 | VRD-MN2BD103J | J | 10 kohm,1/8W | A A |
| | R795~797 | VRS-TV2AB561J | J | 560 ohms,1/10W | A A |
| | R801 | VRD-MN2BD102J | J | 1 kohm,1/8W | A A |
| | R813,814 | VRD-MN2BD471J | J | 470 ohms,1/8W | A A |
| | R833,834 | VRD-MN2BD103J | J | 10 kohm,1/8W | A A |
| | R835,836 | VRD-MN2BD102J | J | 1 kohm,1/8W | A A |
| | R840 | VRD-MN2BD101J | J | 100 ohm,1/8W | A A |
| | R891 | VRD-MN2BD473J | J | 47 kohms,1/8W | A A |
| | R892 | VRD-MN2BD223J | J | 22 kohms,1/8W | A A |
| | R901 | VRD-MN2BD181J | J | 180 ohms,1/8W | A A |
| | R951,952 | VRD-ST2CD473J | J | 47 kohms,1/6W | A A |
| | R953 | VRD-ST2CD105J | J | 1 Mohm,1/6W | A A |
| | R955 | VRD-ST2CD473J | J | 47 kohms,1/6W | A A |
| | R959 | VRD-ST2CD473J | J | 47 kohms,1/6W | A A |
| | R960~962 | VRD-ST2CD102J | J | 1 kohm,1/6W | A A |
| | R963~965 | VRD-ST2CD682J | J | 6.8 kohms,1/6W | A A |
| | R966 | VRD-ST2CD101J | J | 100 ohm,1/6W | A A |

| REF.NO. | PART NO. | ★ | DESCRIPTION | CODI |
|---|---|---|---|---|
| | **OTHER CIRCUITRY PARTS** | | | |
| BI651/CNS651 | 92LCŌNW2T1759A | J | Connector Ass'y,2-2Pin | A D |
| BI720/CNS720 | 92LM-CŌNE1595C | J | Connector Ass'y,6-6Pin | A D |
| CFS700 | QCNCW725RAFZZ | J | Socket,16Pin | A D |
| CFS951 | 92LCŌNWJS1759A | J | Socket,18Pin | A E |
| CFW951 | 92LCŌNWJS1654A | J | Flat Cable,18Pin | A G |
| CNP101 | 92LCŌNE5P53253 | J | Plug,5Pin | A B |
| CNP552 | 92LCŌNE-3P5045 | J | Plug,3Pin | A B |
| CNP601 | 92LCŌNE5P53253 | J | Plug,5Pin | A B |
| CNP651 | 92LCŌNE-2P5045 | J | Plug,2Pin | A A |
| CNP720 | QCNCM687FAFZZ | J | Plug,6Pin | A B |
| CNP881 | 92LCŌNE9P52287 | J | Plug,9Pin | A C |
| CNP951 | 92LCŌNEJP9603S | J | Socket,18Pin | A E |
| CNS101 | 92LM-CŌNE1759B | J | Connector Ass'y,5Pin | A H |
| CNS552 | 92LCŌNW3T1759A | J | Connector Ass'y,3Pin | A D |
| CNS601 | 92LM-CŌNE1759A | J | Connector Ass'y,5Pin | A F |
| J551 | 92LJACKH1759A | J | Jack,Headphones | A F |
| LCD951 | 92LLCD-1759C | J | LCD | A N |
| M601 | 92LMTR1759AASY | J | Motor with Pulley [Tape] | A R |
| M701 | 92LMTR1651BASY | J | Motor with Gear [Slide] | A P |
| M702 | 92LMTR1651CASY | J | Motor with Chassis [Spin] | A P |
| ⚠SO651 | 92LSŌK1651A | J | Socket,AC Power Supply Cord | A H |
| SP501,502 | 92LSPF1759A | J | Speaker | A P |
| SW102 | 92LSWiCHR1759A | J | Switch,Slide Type [Record/Playback] | A G |
| SW201 | 92LSWiCH-1569A | J | Switch,Slide Type [Beat Cancel] | A D |
| SW501 | 92LSWiCHS1759A | J | Switch,Slide Type [Function Selector] | A K |
| SW601 | QSW-F0340AFZZ | J | Switch,Leaf Type [Main] | A E |
| SW702 | QSW-P0920AFZZ | J | Switch,Push Type [Pickup In] | A C |
| SW851 | QSW-F0317AFZZ | J | Switch,Leaf Type [CD Lid Open/Close] | A C |
| SW951 | 92LSWiCH-1401A | J | Switch,Key Type [Play/Repeat] | A C |
| SW952 | 92LSWiCH-1401A | J | Switch,Key Type [Stop] | A C |
| SW953 | 92LSWiCH-1401A | J | Switch,Key Type [Pause] | A C |
| SW954 | 92LSWiCH-1401A | J | Switch,Key Type [Down•Review] | A C |
| SW955 | 92LSWiCH-1401A | J | Switch,Key Type [Up•Cue] | A C |
| TP751 | 92LCŌN7PTXLPB1 | J | Test Point,7Pin | A C |
| | **DECK MECHANISM PARTS** | | | |
| 3 | 92LM-BELT1651B | J | Belt,FF/Rew | A B |
| 4 | 92LM-BELT1651A | J | Belt,Main | A B |
| 10 | 92LM-CSPR667J | J | Spring,Latch Plate | A A |
| 12 | 92LM-CSPR1651F | J | Spring,Back Tention | A A |
| 13 | 92LM-EH1658A | J | Head,Erase | A G |
| 14 | 92LM-ESPR1651A | J | Spring,Lock Plate | A A |
| 15 | 92LM-ESPR1651B | J | Spring,Holder Lock Lever | A A |
| 17 | 92LM-FRRA1651A | J | FR Roller Ass'y | A F |
| 18 | 92LM-FWA1651A | J | Flywheel Ass'y | A G |
| 20 | 92LM-GEAR1651C | J | Gear,FF | A A |
| 21 | 92LM-HPLT1746A | J | Plate,Head | A C |
| 22 | 92LM-iCAM1651A | J | Cam,Idler | A B |
| 23 | 92LM-iLA1651A | J | Idler Lever Ass'y | A B |
| 24 | 92LM-LEV1651G | J | Lever,Main Lock | A B |
| 25 | 92LM-LEV1651i | J | Lever,AS Killer | A A |
| 26 | 92LM-LEV1651J | J | Lever,Pause Timming | A A |
| 27 | 92LM-LEV1651K | J | Lever,Eject Joint | A A |
| 28 | 92LM-LEV1651L | J | Lever,Erase Prevention | A B |
| 29 | 92LM-LEV1651A | J | Lever,Record | A B |
| 30 | 92LM-LEV1651B | J | Lever,Play | A B |

| REF.NO. | PART NO. | ★ | DESCRIPTION | CODE |
|---|---|---|---|---|
| 31 | 92LM-LEV1651C | J | Lever,Rewind | A A |
| 32 | 92LM-LEV1651D | J | Lever,FF | A B |
| 33 | 92LM-LEV1651E | J | Lever,Stop | A B |
| 35 | 92LM-LEV1651Ō | J | Lever,Holder Lock | A B |
| 36 | 92LM-MANG1651A | J | Braket,Motor | A C |
| 38 | 92LM-LGA1746A | J | Lever Guide Ass'y | A F |
| 39 | 92LM-LUG1658A | J | Lug Wire | A B |
| 40 | 92LM-MCA1654A | J | Main Chassis Ass'y | A K |
| 41 | 92LM-PLT1431A | J | Plate,Latch | A A |
| 42 | MSPRP0533AFFW | J | Spring,Cassette | A A |
| 43 | 92LM-LEV1759A | J | Pause Lever | A B |
| 45 | 92LM-PRA1651A | J | Pinch Roller Ass'y | A E |
| 46 | 92LM-REL1651B | J | Supply Reel | A B |
| 47 | 92LM-RPH1746A | J | Head,Record/Playback | A M |
| 50 | 92LM-TSPR1746A | J | Spring,Pinch Roller | A A |
| 51 | 92LM-TSPR1651B | J | Spring,Operate Lever | A A |
| 52 | 92LM-TSPR1651C | J | Spring,Record Lever | A A |
| 53 | 92LM-TSPR1651D | J | Spring,Idler Lever | A A |
| 54 | 92LM-TSPR1651E | J | Spring,Pause Killer | A A |
| 55 | 92LM-TSPR1651F | J | Spring,AS Killer Lever | A A |
| 56 | 92LM-TURA1651A | J | Take-up Reel Ass'y | A F |
| 62 | 92LM-CUSN1651A | J | Motor Cushion | A B |
| 63 | 92LN-BAND1318A | J | Nylon Band,80mm | A A |
| 64 | 92LM-TSPR1651H | J | Spring,Pinch Roller Back | A A |
| 65 | 92LM-TSPR1651G | J | Spring,Pause Lever | A A |
| 66 | 92LM-TSPR1759A | J | Spring,Pause Lock | A A |
| 501 | 92LS2R6S1651A | J | Screw,$\phi$2.6×4.8mm | A B |
| 504 | 92L2BTS+5BZ | J | Screw,$\phi$2×5mm | A A |
| 505 | 92L2BTS+7BZ | J | Screw,$\phi$2×7mm | A A |
| 506 | 92L2TTS+3BZ | J | Screw,$\phi$2×3mm | A A |
| 508 | 92L2TTS+5BZ | J | Screw,$\phi$2×5mm | A A |
| 509 | 92L2TTS+4PZ | J | Screw,$\phi$2×4mm | A A |
| 510 | 92L1R5WC3R8R5P | J | Washer,$\phi$1.5×$\phi$3.8×0.5mm | A A |
| 511 | 92L1R2WC3R2R5P | J | Washer,$\phi$1.2×$\phi$3.2×0.5mm | A A |
| 512 | 92L1R8WC3R4R5P | J | Washer,$\phi$1.8×$\phi$3.4×0.5mm | A A |
| 513 | 92L2R3W6R5P | J | Washer,$\phi$2.3×$\phi$6×0.5mm | A A |
| 516 | 92LS2R7W6R4R5L | J | Washer,$\phi$2.7×$\phi$6.4×0.5mm | A A |
| 517 | 92L1R2WC4R5P | J | Washer,$\phi$1.2×$\phi$4×0.5mm | A A |
| 518 | 92L3R6W6R5P | J | Washer,$\phi$3.6×$\phi$6×0.5mm | A A |
| 519 | 92L2BTS+7BZ | J | Screw,$\phi$2×7mm | A A |
| M601 | 92LMTR1759AASY | J | Motor With Pulley [Tape] | A R |
| SW601 | QSW-F0340AFZZ | J | Switch,Leaf Type [Main] | A E |

## CD MECHANISM PARTS

| | | | | |
|---|---|---|---|---|
| 301 | MSPRC0798AFZZ | J | Spring,Rack | A A |
| 302 | NGERH0381AFZZ | J | Gear,Middle | A C |
| 303 | NGERH0382AFZZ | J | Gear,Drive | A B |
| 304 | NGERR0036AFZZ | J | Gear,Rack,Fix | A B |
| 305 | NGERR0037AFZZ | J | Gear,Rack,Move | A B |
| 306 | NSFTM0237AFFW | J | Shaft,Guide | A C |
| 307 | PCŌVP3207AFSA | J | Cover,CD Mechanism | A D |
| 308 | PCUSG0427AFSC | J | Cushion | A C |
| ⚠310 | RCTRH8134AFZZ | J | Pickup Unit | B H |
| 311 | QPWBH0180AFZZ | J | Flexible PWB | A G |
| 701 | LX-HZ0217AFFD | J | Screw,$\phi$2.6×8mm | A A |
| 702 | XBPSD20P03000 | J | Screw,$\phi$2×3mm | A A |
| 703 | XBPSD26P06J00 | J | Screw,$\phi$2.6×6mm | A A |
| M701 | 92LMTR1651BASY | J | Motor with Gear [Slide] | A P |
| M702 | 92LMTR1651CASY | J | Motor with Chassis [Spin] | A P |

## CABINET PARTS

| | | | | |
|---|---|---|---|---|
| 201 | 92LCAB1759AS1 | J | Front Cabinet Ass'y | A Y |
| 202 | 92LCAB1759B | J | Back Cabinet | A U |
| 203 | 92LCAB1759C | J | Top Cabinet | A R |
| 204 | 92LATML1759A | J | Terminal,Antenna | A A |
| 205 | 92LBSPR1401A | J | Spring,Battery,+/- | A C |
| 206 | 92LBSPR1595C | J | Spring,Battery,- | A B |
| 207 | 92LCCŌV1759AS1 | J | CD Lid Ass'y | A M |
| 207- 1 | ———— | | CD Lid (Not Replacement Item) | — |
| 207- 2 | 92LPANEL1759D | J | Panel,CD Lid | A E |
| 208 | 92LPiNT1759A | J | Dial Pointer | A C |
| 209 | 92LCSPR1759A | J | Spring,Cassette Up | A A |
| 210 | 92LCSPR1759B | J | Spring,CD Lid Up | A B |
| 211 | 92LCSPR1524B | J | Spring,Record | A B |
| 213 | 92LDAMPER1651A | J | Damper | A D |
| 214 | 92LHNDL1759A | J | Handle Ass'y | A M |
| 215 | 92LPANEL1759C | J | Panel,LCD | A C |
| 216 | 92LHŌLD1759B | J | Holder,LCD | A B |
| 217 | 92LKNŌB1759B | J | Button,CD Control | A C |
| 218 | 92LKNŌB1759A | J | Knob [Tuning] | A C |
| 219 | 92LKNŌB1759E | J | Knob [Function] | A B |
| 221 | 92LKNŌB1759D | J | Knob [Volume/Tone] | A B |
| 222 | 92LLEV1759A | J | Lever,Record | A D |
| 224 | 92LLiD1596A-GY | J | Lid,Battery | A E |
| 227 | 92LM-BTN1759A | J | Button [Record] | A A |
| 228 | 92LM-BTN1759B | J | Button [Play] | A A |
| 229 | 92LM-BTN1759C | J | Button [Rew] | A A |
| 230 | 92LM-BTN1759D | J | Button [FF] | A A |
| 231 | 92LM-BTN1759E | J | Button [Stop] | A A |
| 232 | 92LM-BTN1759F | J | Button [Pause] | A A |
| 235 | 92LMAG1651AS1 | J | Magnet Ass'y | A H |
| 236 | 92LPANEL1759A | J | Tuner Panel | A D |
| 237 | 92LN-BAND1318A | J | Nylon Band,80mm | A A |
| 238 | 92LR-ANT1651A | J | Rod Antenna | A M |
| 239 | 92LRDAT1524A | J | Heat,Sink | A E |
| 240 | 92LSCHS1759A | J | Frame,Tuner | A F |
| 243 | 92LSUPT1759A | J | Bracket,Back Cabinet | A B |
| 244 | 92LWHEL1759A | J | Dial Wheel | A D |
| 245 | 92LGEAR1759A | J | Dial Gear | A D |
| 246 | 92LMEC1759CTS1 | J | Cassette Holder Ass'y | A K |
| 246- 1 | ———— | | Cassette Holder (Not Replacement Item) | — |
| 246- 2 | 92LPANEL1759B | J | Panel,Cassette Holder | A C |
| 246- 3 | 92LPANEL1759E | J | Panel,SHARP | A C |
| 247 | 92LKNŌB1759C | J | Button,CD Eject | A B |
| 250 | 92LLEV1651A | J | Lever,CD Lid Lock | A B |
| 251 | 92LHŌLD1759A | J | Holder,Tuning Knob | A C |
| 252 | 92LM-ANG1759A | J | Bracket,Record | A C |
| 601 | 92L3PTS+10BZ | J | Screw,$\phi$3×10mm | A A |
| 602 | 92L3PTS+12BZ | J | Screw,$\phi$3×12mm | A A |
| 603 | 92L2R6PTS+10BZ | J | Screw,$\phi$2.6×10mm | A A |
| 604 | 92L2TTS+3BZ | J | Screw,$\phi$2×3mm | A A |
| 605 | 92L3PTS+12BB | J | Screw,$\phi$3×12mm | A A |
| 606 | 92L3BTS+12VWZ | J | Screw,$\phi$3×12mm | A A |
| 607 | 92L3PTS+25BZ | J | Screw,$\phi$3×25mm | A A |
| 608 | 92L3TSB+8BZ | J | Screw,$\phi$3×8mm | A A |
| 609 | 92L3SPW | J | Washer,$\phi$3 | A A |
| 610 | 92L2R8W12-R8S | J | Washer,$\phi$2.8×$\phi$12×0.8mm | A A |
| 611 | 92L3R2W15-R8S | J | Washer,$\phi$3.2×$\phi$15×0.8mm | A A |
| 612 | 92L3S+10CB | J | Screw,$\phi$3×10mm | A A |
| 613 | 92LS2R6S261A | J | Screw,$\phi$2.6×6mm | A A |

## ACCESSORIES

| | | | | |
|---|---|---|---|---|
| ⚠ | 92LCŌRD-1651A | J | AC Power Supply Cord | A L |
| | 92LiNST1759A | J | Operation Manual | A D |

## P.W.B. ASSEMBLY (Not Replacement Item)

| | | | | |
|---|---|---|---|---|
| PWB-A1~4 | 92LPWB1759MANS | J | Main/Tuner/Power/Terminal (Combined Ass'y) | — |
| PWB-B | 92LPWB1759DPLS | J | LCD | — |
| PWB-C | 92LPWB1759CDUS | J | CD Servo | — |
| PWB-D | QPWBF3368AFZZ | J | Motor [PWB Only] | A B |

| DE | REF.NO. | PART NO. | ★ | DESCRIPTION | CODE |
|---|---|---|---|---|---|
| M | | | | **OTHER SERVICE PART** | |
| E | | QCNWK0013AFZZ | J | Extension Cable,TP751 (7 Pin) | A H |